Recl. Trav. Chim. Pays-Bas **114**, 577–580 (1995) 0165–0513/95/11/12577–04$9.50

Author Index

Al-Qaradawi, S., A. Gilbert and **D.T. Jones**
Factors influencing the reaction-mode selectivity and regiochemistry of intermolecular photocycloaddition reactions of ethenes to polysubstituted benzenes 485
Altona, C., see **Kalinichenko, E.N.** 43
Altona, C., see **van den Boogaart, J.E.** 79
Andrianatoandro, H., see **Desvergne, J.-P.** 504
Armesto, D., A. Ramos, M.J. Ortiz, M.J. Mancheño and **E.P. Mayoral**
Novel photocyclization of β,γ-unsaturated oximes 514
Arnouts, E.G., see **Raaijmakers, H.W.C.** 301
Bakker, B.H., see **Cerfontain, H.** 410
Balzani, V., see **De Cola, L.** 534
Banerjee, A.K. and **W. Vera**
Thionyl-chloride-pyridine-mediated rearrangement of tertiary alcohols 87
Barendrecht, E., see **van Andel-Scheffer, P.J.M.** 259
Barigelletti, F., see **De Cola, L.** 534
Bartocci, G., U. Mazzucato and **A. Spalletti**
Effect of the nitrogen heteroatom on the photophysics and photochemistry of trans-1-styrylnaphthalene and trans-9-styrylphenanthrene in different solvents 459
Belle, D.D., A. Tolvanen and **M. Lounasmaa**
Formation of the 1,3-oxazepine ring system during the oxidation of an alcohol with activated dimethyl sulfoxide 37
Belser, P., see **De Cola, L.** 534
Bernhard, S., see **De Cola, L.** 534
Bezuidenhoudt, B.C.B., G.H. Castle, J.E. Innes and **S.V. Ley**
Dispiroketals in synthesis (part 16): Functionalised dispiroketals as new chiral auxiliaries; the synthesis of dihydroxylated dispiroketals in optically pure form and their application as bifunctional, C_2-symmetrical, chiral auxiliaries for highly stereoselective Michael additions 184
Bixon, M., see **Verhoeven, J.W.** 443
Boal, J.H., see **van den Boogaart, J.E.** 79
Boerrigter, H., see **Timmerman, P.** 103
Boiten, J.W., Dutch Ph.D. Thesis 339
Bolster, M.B., see **van Maarseveen, J.H.** 27
Bonora, G.M., see **Crisma, M.** 325
Boogaard, N., Dutch Ph.D. Thesis 112
Bouas-Laurent, H., see **Desvergne, J.-P.** 504
Bradley, G. and **R.S. Davidson**
Some aspects of the role of amines in the photoinitiated polymerisation of acrylates in the presence and absence of oxygen 528
Brands, R., see **van der Laan, A.C.** 295
Brandsma, L.
A quick method for making liquid ammonia superdry 35
Brandsma, L., see **Mal'kina, A.G.** 18
Braslavsky, S.E., see **Jiwan, J.-L.H.** 542
Braun, D., see **Létard, J.-F.** 517
Braverman, S., see **van der Linden, J.B.** 51
Breel, G.J., see **Noomen, S.N.** 321
Broos, J., J.F.J. Engbersen, W. Verboom and **D.N. Reinhoudt**
Inversion of enantioselectivity of serine proteases 255
Brouwer, A.M. and **H.J.C. Jacobs**
Photochemistry of 2,5-dimethyl-1,3,5-hexatrienes in argon matrices. Formation of isomers and rotamers 449
Brown, J.M., M. Rose, F.I. Knight and **A. Wienand**
Ruthenium diphosphine complexes for catalysis; a general synthesis and direct comparisons with rhodium complexes 242
Broxterman, Q.B., see **Kaptein, B.** 231
Castle, G.H., see **Bezuidenhoudt, B.C.B.** 184
Cerfontain, H., J.B. Kramer, R.M. Schonk and **B.H. Bakker**
Reactivity and regioselectivity in the reaction of allylsilanes and some analogous all-carbon alkenes with sulfur trioxide 410
Chittenden, G.J.F., see **Raaijmakers, H.W.C.** 301
Christian, P.W.N., S.E. Gibson, R. Gil, P.C.V. Jones, C.F. Marcos, F. Prechtl and **A.T. Wierzchleyski**
Synthesis of enantiomerically pure tricarbonylchromium(0) complexes of ortho substituted styrenes from (*S*)-α-methylbenzylamine 195
Cohen, L.H., see **Valentijn, A.R.P.M.** 332
Coolen, H.K.A.C., H. Engelkamp, J.N.H. Reek, A.H. Priem, P.W.N.M. van Leeuwen and **R.J.M. Nolte**
Chiral basket-shaped host compounds derived from diphenylglycoluril 65
Coolen, H.K.A.C., J.N.H. Reek, J.M. Ernsting, P.W.N.M. van Leeuwen and **R.J.M. Nolte**
Rhodium(I)-centered cyclotriveratrylene 381
Cotrait, M., see **Desvergne, J.-P.** 504
Crisma, M., G. Valle, M. Pantano, F. Formaggio, G.M. Bonora, C. Toniolo and **J. Kamphuis**
Peptides from chiral $C^{\alpha\alpha}$-disubstituted glycines. On the helical screw sense of isovaline peptides 325
David, E., see **Dürr, H.** 549
Davidson, R.S., see **Bradley, G.** 528
Davies, S.G., A.J. Edwards and **I.A.S. Walters**
Asymmetric synthesis of anti-α-alkyl-β-amino carboxamides 175
De Boer, J.S.A.M. and **H. Schenk**
The influence of substituents on the geometry of the cyclopropane ring. VIII The molecular and crystal structures of azocyclopropane *N,N'*-dioxide and 1,1'-dimethylazocyclopropane *N,N'*-dioxide 395
De Brabander-van den Berg, E.M.M., see **Jansen, J.F.G.A.** 225
De Brabander-van den Berg, E.M.M., see **Jenneskens, L.W.** 97
De Bruyn, A., see **Van der Eycken, E.** 480
Declercq, J.-P., see **Markó, I.E.** 239
De Cola, L., V. Balzani, F. Barigelletti, L. Flamigni, P. Belser and **S. Bernhard**
Photoinduced energy- and electron-transfer processes in dinuclear ruthenium(II) and/or osmium(II) complexes connected by a linear rigid bis-chelating bridge 534
De Groot, R.W., A. Wagenaar, A. Sein and **J.B.F.N. Engberts**
Synthesis and aggregation behavior of 2-(4-butyloctyl)malonic acid in aqueous solution. The formation of physically and colloidally stable vesicles by a branched-chain malonate 371
De Haan, R., see **Valentijn, A.R.P.M.** 332
De Jong, F., see **Visser, H.C.** 285
De Kant, E., see **Valentijn, A.R.P.M.** 332
De Keukeleire, D., see **Van der Eycken, E.** 480
De Koning, L.J., see **de Visser, S.P.** 267
Delmond, S., see **Létard, J.-F.** 517
De March, P., M. Figueredo, J. Font and **M. Monsalvatje**
Reactions of cyclic nitrones with (*E*)-γ-hydroxy- and (*E*)-γ-alkoxy-α,β-unsaturated esters 357
Depaemelaere, S., see **Verhoeven, J.W.** 443
De Schryver, F.C., see **Verhoeven, J.W.** 443
Desvergne, J.-P., J. Lauret, H. Bouas-Laurent, P. Marsau, N. Lahrahar, H. Andrianatoandro and **M. Cotrait**
Synthesis, X-ray structure, spectroscopic and cation complexation studies of macrocyclic ligands incorporating the 9,9'-(ethane-1,2-diyl)bis(anthracene) photoactive subunit 504
De Visser, S.P., L.J. de Koning, W.J. van der Hart and **N.M.M. Nibbering**
Chemical properties of butadienyl anions in the gas-phase 267
De Zoete, M.C., A.A. Ouwehand, F. van Rantwijk and **R.A. Sheldon**
Enzymatic ammoniolysis of amino acid derivatives 171
Döpp, D. and **M.-A. Fischer**
[2 + 2] Photoaddition of 2-aminopropenenitriles to diarylethanediones. A product study 498
Doyle, M.P., A.B. Dyatkin, M.N. Protopopova, C.I. Yang, C.S. Miertschin, W.R. Winchester, S.H. Simonsen, V. Lynch and **R. Ghosh**
Enhanced enantiocontrol in catalytic metal carbene transformations with dirhodium(II) tetrakis[methyl 2-oxooxazolidin-4(*S*)-carboxylate], $Rh_2(4S\text{-MEOX})_4$ 163
Driessen, W.L., F. Paap and **J. Reedijk**
Metal ion induced disintegration of a pyrazole-containing ligand and formation of an unprecedented pyrazolato-bridged di-zinc anion 317
Dürr, H., R. Hayo, E. David, I. Willner and **E. Zahavy**
Medium effects on the photophysical properties of porphyrazine-metal(II) complexes in micellar solutions 549
Dyatkin, A.B., see **Doyle, M.P.** 163
Edwards, A.J., see **Davies, S.G.** 175

Egan, W., see **van den Boogaart, J.E.** 79
Engbersen, J.F.J., see **Broos, J.** 255
Engberts, J.B.F.N., see **de Groot, R.W.** 371
Engberts, J.B.F.N., see **Kooreman, P.A.** 421
Engelkamp, H., see **Coolen, H.K.A.C.** 65
Ernsting, J.M., see **Coolen, H.K.A.C.** 381
Feneau-Dupont, J., see **Markó, I.E.** 239
Feringa, B.L., see **Hulst, R.** 115
Feringa, B.L., see **Hulst, R.** 220
Figueredo, M., see **de March, P.** 357
Fischer, M.-A., see **Döpp, D.** 498
Flamigni, L., see **De Cola, L.** 534
Font, J., see **de March, P.** 357
Formaggio, F., see **Crisma, M.** 325
Frank, R. and **H. Rau**
Kinetic salt effects in the quenching of the excited state of the tris(2,2′-bipyridine)ruthenium(II) complex by 2-methylanthraquinone 556
Gao, H.-W.
Dual-wavelength spectrophotometric determinations of copper and its composition of the complex with eriochrome blue black R 61
Geus, J.W., see **Titulaer, M.K.** 361
Ghosh, R., see **Doyle, M.P.** 163
Gibson, S.E., see **Christian, P.W.N.** 195
Gil, R., see **Christian, P.W.N.** 195
Gilbert, A., see **Al-Qaradawi, S.** 485
Gilbert, A., see **Van der Eycken, E.** 480
Giles, P.R., see **Markó, I.E.** 239
Giumanini, A.G., G. Verardo, F. Gorassini and **P. Strazzolini**
Hydrocarbons and chloroaromatics from anilines and *n*-butyl nitrite 311
Gorassini, F., see **Giumanini, A.G.** 311
Graalfs, H. and **J. Mattay**
Photoaddition reactions of 1,3-dioxin-4-ones 483
Grevels, F.-W., W.E. Klotzbücher, G. Russell and **K. Schaffner**
Photolytic behaviour of tricarbonyl[(1,2,5,6-η)-cycloocta-1,5-diene]iron in solution and low-temperature matrices 571
Groenen, E.J.J., see **Kok, P.** 425
Groesbeek, M. and **J. Lugtenburg**
Synthesis of nitroxide containing polyenes: two chemically modified retinals and their interaction with bacterioopsin 403
Grosenick, H., see **Schurig, V.** 211
Grzegożek, M., see **Woźniak, M.** 13
Haasnoot, J.G., see **Veldhuizen, Y.S.J.** 337
Hagens, S., see **Valentijn, A.R.P.M.** 332
Harada, N., N. Hiyoshi and **K. Naemura**
Circular-dichroism power of chiral, bridged, aromatic compounds. 7,8,15,16-Tetrahydro-7,15-methanocycloocta[1,2-*a*:5,6-*a*′] dinaphthalene derivatives 157
Harkema, S., see **Visser, H.C.** 285
Hartl, F., B.D. Rossenaar, G.J. Stor and **D.J. Stufkens**
Role of an electron-transfer chain reaction in the unusual photochemical formation of five-coordinated anions $[Mn(CO)_3(\alpha\text{-diimine})]^-$ from fac-$[Mn(X)(CO)_3(\alpha\text{-diimine})]$ (X = halide) at low temperatures 565
Hayo, R., see **Dürr, H.** 549
Hebecker, A., see **von der Haar, Th.** 430
Helmchen, G., see **Stork, Th.** 253
Hermant, R.M., see **Verhoeven, J.W.** 443
Heskamp, B.M., G.H. Veeneman, G.A. van der Marel, C.A.A. van Boeckel and **J.H. van Boom**
Synthesis of a SLe^x mimic: a potential E-selectin binding antagonist 398
Hindley, N.J., see **Markó, I.E.** 239
Hirose, Y., see **Soai, K.** 145
Hiyoshi, N., see **Harada, N.** 157
Hua, D.H. and **S. Saha**
Gilvocarcins 341
Huck, W.T.S., F.C.J.M. van Veggel and **D.N. Reinhoudt**
Synthesis of new macrocyclic ligands for hetero-multinuclear transition-metal complexes 273
Huckriede, B.D., Dutch Ph.D. Thesis 298
Huige, C.J.M., see **van den Boogaart, J.E.** 79
Hulst, R., R.M. Kellogg and **B.L. Feringa**
New methodologies for enantiomeric-excess (*ee*) determination based on phosphorus NMR 115
Hulst, R., W. Kruizinga, H. Wynberg, B.L. Feringa and **R.M. Kellogg**
The enantiomeric excess determination and dynamic behaviour of cyclic phosphoric acids used for resolution 220
Huser, N., see **Solladié, G.** 153
Huskens, J., Dutch Ph.D. Thesis 76
Il'ichev, Y., see **von der Haar, Th.** 430
Indelli, M.T., see **Jiwan, J.-L.H.** 542
Innes, J.E., see **Bezuidenhoudt, B.C.B.** 184
Inoue, Y., see **Soai, K.** 145
Jacobs, H.J.C., see **Brouwer, A.M.** 449
Janousek, Z., see **Markó, I.E.** 239
Jansen, J.F.G.A., E.M.M. de Brabander-van den Berg and **E.W. Meijer**
Induced chirality of guest molecules encapsulated into a dendritic box 225
Jansen, J.B.H., see **Titulaer, M.K.** 361
Jenneskens, L.W., J. Mahy, E.M.M. de Brabander-van den Berg, I. van der Hoef and **J. Lugtenburg**
2-(Trifluoromethyl)piperazine: synthesis and characterization using NMR and X-ray photoelectron spectroscopy 97
Jiang, Y.-B., see **von der Haar, Th.** 430
Jiayu, Z., see **Weimin, W.** 22
Jiwan, J.-L.H., B. Wegewijs, M.T. Indelli, F. Scandola and **S.E. Braslavsky**
Volume changes associated with intramolecular electron transfer during MLCT state formation. Time-resolved optoacoustic studies of ruthenium cyano complexes 542
Jones, D.T., see **Al-Qaradawi, S.** 485
Jones, P.C.V., see **Christian, P.W.N.** 195
Jortner, J., see **Verhoeven, J.W.** 443
Juza, M., see **Schurig, V.** 211
Kagan, H.B.
Is there a preferred expression for the composition of a mixture of enantiomers? 203
Kalinichenko, E.N., T.L. Podkopaeva, N.E. Poopeiko, M. Kelve, M. Saarma, I.A. Mikhailopulo, J.E. van den Boogaart and **C. Altona**
Role of the stereochemistry of 3′-fluoro-3′-deoxy analogues of 2-5A in binding to and activation of mouse RNase L 43
Kamphuis, J., see **Crisma, M.** 325
Kamphuis, J., see **Kaptein, B.** 231
Kaptein, B., V. Monaco, Q.B. Broxterman, H.E. Schoemaker and **J. Kamphuis**
Synthesis of dipeptides containing α-substituted amino acids; their use as chiral ligands in Lewis-acid-catalyzed reactions 231
Kellogg, R.M., see **Hulst, R.** 115
Kellogg, R.M., see **Hulst, R.** 220
Kelve, M., see **Kalinichenko, E.N.** 43
Klotzbücher, W.E., see **Grevels, F.-W.** 571
Knight, F.I., see **Brown, J.M.** 242
Koch, G., G.C. Lloyd-Jones, O. Loiseleur, A. Pfaltz, R. Prétôt, S. Schaffner, P. Schnider and **P. von Matt**
Synthesis of chiral (phosphinoaryl)oxazolines, a versatile class of ligands for asymmetric catalysis 206
Kokhuis, S.B.M., see **Visser, H.C.** 285
Kok, P. and **E.J.J. Groenen**
The lowest triplet state of tetradecahexaenal 425
Komen, C.M.D., Dutch Ph.D. Thesis 377
Kooreman, P.A. and **J.B.F.N. Engberts**
Complex formation of Ca^{2+} ions with 1-O-n-octyl-β-D-mannofuranoside 421
Kramer, J.B., see **Cerfontain, H.** 410
Kreissler, M., see **Létard, J.-F.** 517
Kruizinga, W., see **Hulst, R.** 220
Kruse, C.G., see **van Maarseveen, J.H.** 27
Kühnle, W., see **von der Haar, Th.** 430
Kuyl-Yeheskiely, E., see **van der Laan, A.C.** 295
Laarhoven, W.H., see **Prinsen, W.J.C.** 470
Lahrahar, N., see **Desvergne, J.-P.** 504
Lapouyade, R., see **Létard, J.-F.** 517
Lauret, J., see **Desvergne, J.-P.** 504
Létard, J.-F., S. Delmond, R. Lapouyade, D. Braun, W. Rettig and **M. Kreissler**
New intrinsic fluoroionophores with dual fluorescence: DMABN-Crown4 and DMABN-Crown5 517
Ley, S.V., see **Bezuidenhoudt, B.C.B.** 184
Lichtenauer-Kaligis, E.G.R., Dutch Ph.D. Thesis 76
Lifka, T., see **Meier, H.** 465
Lloyd-Jones, G.C., see **Koch, G.** 206
Loiseleur, O., see **Koch, G.** 206
Lounasmaa, M., see **Belle, D.D.** 37
Lugtenburg, J., see **Groesbeek, M.** 403
Lugtenburg, J., see **Jenneskens, L.W.** 97
Luijkx, G.C.A., Dutch Ph.D. Thesis 76
Lynch, V., see **Doyle, M.P.** 163
Mahy, J., see **Jenneskens, L.W.** 97
Mal'kina, A.G., O.A. Tarasova, H.D. Verkruijsse, A.C.H.T.M. van der Kerk, L. Brandsma and **B.A. Trofimov**
Metallation and functionalization of *N*-vinylpyrrole 18
Mancheño, M.J., see **Armesto, D.** 514
Marcos, C.F., see **Christian, P.W.N.** 195
Marinić, Ž., see **Šindler-Kulyk, M.** 476

Markó, I.E., P.R. Giles, Z. Janousek, N.J. Hindley, J.-P. Declercq, B. Tinant, J. Feneau-Dupont and **J.S. Svendsen**
Syn-Stereocontrolled dihydroxylation of Baylis-Hillman adducts 239
Marsau, P., see **Desvergne, J.-P.** 504
Mattay, J., see **Graalfs, H.** 483
Mayoral, E.P., see **Armesto, D.** 514
Mazzucato, U., see **Bartocci, G.** 459
Meeuwenoord, N.J., see **van der Laan, A.C.** 295
Meier, H., T. Lifka and **K. Müller**
Selectivity in the direction of photoisomerization reactions in liquid-crystalline guest-host systems 465
Meijer, E.W., see **Jansen, J.F.G.A.** 225
Meijer, E.W., see **Palmans, A.R.A.** 277
Mergler, Y.J., Dutch Ph.D. Thesis 339
Metelko, B., see **Šindler-Kulyk, M.** 476
Meyer, C., J.-P. Pete and **O. Piva**
Photochemical rearrangement of 2-(*N*-allyl-*N*-alkylamino)cyclohex-2-enones 492
Miertschin, C.S., see **Doyle, M.P.** 163
Mikhailopulo, I.A., see **Kalinichenko, E.N.** 43
Monaco, V., see **Kaptein, B.** 231
Monsalvatje, M., see **de March, P.** 357
Müller, K., see **Meier, H.** 465
Naemura, K., see **Harada, N.** 157
Ng, A.K.F., see **Wegewijs, B.** 6
Nibbering, N.M.M., see **de Visser, S.P.** 267
Nolte, R.J.M., see **Coolen, H.K.A.C.** 65
Nolte, R.J.M., see **Coolen, H.K.A.C.** 381
Noomen, S.N., G.J. Breel and **C. Winkel**
The synthesis of pure Amadori rearrangement products 321
Noordman, R., see **Wubbolts, M.G.** 139
Oberyé, E.H.H., see **van Maarseveen, J.H.** 27
Ohno, Y., see **Soai, K.** 145
Oosting, R.S., see **van der Laan, A.C.** 295
Orru, R.V.A., Dutch Ph.D. Thesis 39
Ortiz, M.J., see **Armesto, D.** 514
Ouwehand, A.A., see **de Zoete, M.C.** 171
Paap, F., see **Driessen, W.L.** 317
Palmans, A.R.A., J.A.J.M. Vekemans and **E.W. Meijer**
Intramolecular hydrogen bonding in acylated 2,2′-bipyridine-3,3′-diamines 277
Pantano, M., see **Crisma, M.** 325
Pete, J.-P., see **Meyer, C.** 492
Peters, R.F.R., see **Rietman, B.H.** 1
Pfaltz, A., see **Koch, G.** 206
Pirrung, F.O.H., Dutch Ph.D. Thesis 377
Piva, O., see **Meyer, C.** 492
Podkopaeva, T.L., see **Kalinichenko, E.N.** 43
Poopeiko, N.E., see **Kalinichenko, E.N.** 43
Prechtl, F., see **Christian, P.W.N.** 195
Prétôt, R., see **Koch, G.** 206
Priem, A.H., see **Coolen, H.K.A.C.** 65
Prinsen, W.J.C. and **W.H. Laarhoven**
The influence of the chiral environment in the photosynthesis of enantiomerically enriched hexahelicene 470
Protopopova, M.N., see **Doyle, M.P.** 163
Raaijmakers, H.W.C., E.G. Arnouts, B. Zwanenburg, G.J.F. Chittenden and **H.A. van Doren**
The synthesis and properties of some mesogenic 3-*O*-alkyl derivatives of D-glucitol and D-mannitol 301
Ramos, A., see **Armesto, D.** 514
Rau, H., see **Frank, R.** 556
Reedijk, J., see **Driessen, W.L.** 317
Reedijk, J., see **Veldhuizen, Y.S.J.** 337
Reek, J.N.H., see **Coolen, H.K.A.C.** 65
Reek, J.N.H., see **Coolen, H.K.A.C.** 381
Reinhoudt, D.N., see **Broos, J.** 255
Reinhoudt, D.N., see **Huck, W.T.S.** 273
Reinhoudt, D.N., see **Timmerman, P.** 103
Reinhoudt, D.N., see **van Veggel, F.C.J.M.** 387
Reinhoudt, D.N., see **Visser, H.C.** 285
Rettig, W., see **Létard, J.-F.** 517
Rietman, B.H., R.F.R. Peters and **G.I. Tesser**
On the stability of *S*-(alkylsulfanyl) cysteine derivatives during solid-phase synthesis 1
Roobeek, K.F., see **van Leeuwen, P.W.N.M.** 73
Rose, M., see **Brown, J.M.** 242
Rossenaar, B.D., see **Hartl, F.** 565
Roszkiewicz, W., see **Woźniak, M.** 13
Rudkevich, D.M., Dutch Ph.D. Thesis 339
Rülke, R.E., Dutch Ph.D. Thesis 377
Russell, G., see **Grevels, F.-W.** 571
Saarma, M., see **Kalinichenko, E.N.** 43
Saha, S., see **Hua, D.H.** 341
Scandola, F., see **Jiwan, J.-L.H.** 542
Schaffner, K., see **Grevels, F.-W.** 571
Schaffner, S., see **Koch, G.** 206
Scheeren, H.W., see **van Maarseveen, J.H.** 27
Schenk, H., see **de Boer, J.S.A.M.** 395
Scherer, T., Dutch Ph.D. Thesis 39
Scherer, T., see **Verhoeven, J.W.** 443
Schnider, P., see **Koch, G.** 206
Schoemaker, H.E., see **Kaptein, B.** 231
Schonk, R.M., see **Cerfontain, H.** 410
Schurig, V., H. Grosenick and **M. Juza**
Enantiomer separation of chiral inhalation anesthetics (enflurane, isoflurane and desflurane) by gas chromatography on a γ-cyclodextrin derivative 211
Sein, A., see **de Groot, R.W.** 371
Sheldon, R.A., see **de Zoete, M.C.** 171
Simonsen, S.H., see **Doyle, M.P.** 163
Šindler-Kulyk, M., S. Tomšić, Ž. Marinić and **B. Metelko**
Synthesis and photochemistry of 2-styrylpyrroles. Intermolecular photoaddition of pyrroles to a double bond 476
Snellink-Ruel, B.H.M., see **Visser, H.C.** 285
Soai, K., Y. Ohno, Y. Inoue, T. Tsuruoka and **Y. Hirose**
Catalytic enantioselective alkylation of aldehydes using chiral hydrogen phosphoramidates and hydrogen phosphinamides and their thio analogs 145
Solladié, G. and **N. Huser**
Asymmetric synthesis of solenopsins A, B and C 153
Spalletti, A., see **Bartocci, G.** 459
Spek, A.L., see **Veldhuizen, Y.S.J.** 337
Stork, Th. and **G. Helmchen**
A new chiral solvating agent for carboxylic acids based on directed hydrogen bonding 253
Stor, G.J., see **Hartl, F.** 565
Strazzolini, P., see **Giumanini, A.G.** 311
Stufkens, D.J., see **Hartl, F.** 565
Svendsen, J.S., see **Markó, I.E.** 239
Szpakiewicz, B., see **Woźniak, M.** 13
Tarasova, O.A., see **Mal'kina, A.G.** 18
Ten Dam, E.B., Dutch Ph.D. Thesis 298
Tesser, G.I., see **Rietman, B.H.** 1
Timmerman, P., Dutch Ph.D. Thesis 112
Timmerman, P., H. Boerrigter, W. Verboom and **D.N. Reinhoudt**
Synthesis of potential receptor molecules by combination of upper-rim-functionalized calix[4]arenes and partly bridged resorcinarenes 103
Timmermans, J.L., see **van der Linden, J.B.** 91
Tinant, B., see **Markó, I.E.** 239
Titulaer, M.K., J.C. van Miltenburg, J.B.H. Jansen and **J.W. Geus**
Thermoporometry applied to hydrothermally aged silica hydrogels 361
Tolvanen, A., see **Belle, D.D.** 37
Tomšić, S., see **Šindler-Kulyk, M.** 476
Toniolo, C., see **Crisma, M.** 325
Trofimov, B.A., see **Mal'kina, A.G.** 18
Tsuruoka, T., see **Soai, K.** 145
Ubbink, M., Dutch Ph.D. Thesis 39
Valentijn, A.R.P.M., R. de Haan, S. Hagens, E. de Kant, G.A. van der Marel, L.H. Cohen and **J.H. van Boom**
Synthesis of a potential enzyme-specific inhibitor of squalene synthase 332
Valle, G., see **Crisma, M.** 325
Van Andel-Scheffer, P.J.M. and **E. Barendrecht**
Review on the electrochemistry of solvated electrons. Its use in hydrogenation of monobenzenoids 259
Van Asten, P.F.T.M., see **van der Linden, J.B.** 51
Van Beilen, J.B., see **Wubbolts, M.G.** 139
Van Boeckel, C.A.A., see **Heskamp, B.M.** 398
Van Boom, J.H., see **Heskamp, B.M.** 398
Van Boom, J.H., see **Valentijn, A.R.P.M.** 332
Van Boom, J.H., see **van der Laan, A.C.** 295
Van de Bovenkamp, H.J., Dutch Ph.D. Thesis 298
Van den Boogaart, J.E., C.J.M. Huige, J.H. Boal, W. Egan and **C. Altona**
An abasic site induces a bulged conformation in the single-stranded DNA trimer d(Ap(ab)pA). An NMR and model-building study 79
Van den Boogaart, J.E., see **Kalinichenko, E.N.** 43
Van der Eycken, E., D. De Keukeleire, A. De Bruyn, J. Van der Eycken and **A. Gilbert**
Stereochemical features of meta photocycloadducts derived from 3-alkyl-4-phenoxybut-1-enes 480
Van der Eycken, J., see **Van der Eycken, E.** 480

Van der Hart, W.J., see **de Visser, S.P.** 267
Van der Hoef, I., see **Jenneskens, L.W.** 97
Van der Kerk, A.C.H.T.M., see **Mal'kina, A.G.** 18
Van der Laan, A.C., N.J. Meeuwenoord, E. Kuyl-Yeheskiely, R.S. Oosting, R. Brands and **J.H. van Boom**
Solid support synthesis of a PNA-DNA hybrid 295
Van der Linden, J.B., J.L. Timmermans and **B. Zwanenburg**
Synthesis of chiral sulfines by oxidation of dithio esters 91
Van der Linden, J.B., P.F.T.M. van Asten, S. Braverman and **B. Zwanenburg**
Synthesis of thiophenes from allenyl involving α,β-unsaturated sulfines as intermediates 51
Van der Marel, G.A., see **Heskamp, B.M.** 398
Van der Marel, G.A., see **Valentijn, A.R.P.M.** 332
Van Doren, H.A., see **Raaijmakers, H.W.C.** 301
Van Leeuwen, P.W.N.M. and **K.F. Roobeek**
The Cossee mechanism: migratory insertion reactions in palladium phosphine-phosphinite complexes 73
Van Leeuwen, P.W.N.M., see **Coolen, H.K.A.C.** 65
Van Leeuwen, P.W.N.M., see **Coolen, H.K.A.C.** 381
Van Maarseveen, J.H., E.H.H. Oberyé, M.B. Bolster, H.W. Scheeren and **C.G. Kruse**
Transformations of the tetracyclic skeleton of eudistomins by neighboring – group participation in the Mitsunobu reaction 27
Van Miltenburg, J.C., see **Titulaer, M.K.** 361
Van Rantwijk, F., see **de Zoete, M.C.** 171
Van Strijdonck, G.P.F., Dutch Ph.D. Thesis 298
Van Veggel, F.C.J.M. and **D.N. Reinhoudt**
Molecular-mechanics and -dynamics simulations of trivalent europium complexes of calix[4]arene derivatives and a bislariat diazacrown ether 387
Van Veggel, F.C.J.M., see **Huck, W.T.S.** 273
Veeneman, G.H., see **Heskamp, B.M.** 398
Vekemans, J.A.J.M., see **Palmans, A.R.A.** 277
Veldhuizen, Y.S.J., N. Veldman, A.L. Spek, J.G. Haasnoot and **J. Reedijk**
Synthesis and crystal structure of $[Bu_4N][Ni(mdt)_2]$, a novel nickel dithiolene complex ($H_3mdt = 2H$-1,3-dithiole-4,5-dithiol) 337
Veldman, N., see **Veldhuizen, Y.S.J.** 337
Vente, J.F., Dutch Ph.D. Thesis 112
Vera, W., see **Banerjee, A.K.** 87
Verardo, G., see **Giumanini, A.G.** 311
Verboom, W., see **Broos, J.** 255
Verboom, W., see **Timmerman, P.** 103
Verhart, C.G.J., Dutch Ph.D. Thesis 76
Verhoeven, J.W., T. Scherer, B. Wegewijs, R.M. Hermant, J. Jortner, M. Bixon, S. Depaemelaere and **F.C. De Schryver**
Electronic coupling in inter- and intramolecular donor-acceptor systems as revealed by their solvent-dependent charge-transfer fluorescence 443
Verhoeven, J.W., see **Wegewijs, B.** 6
Verkruijsse, H.D., see **Mal'kina, A.G.** 18
Vink, R., see **Visser, H.C.** 285
Visse, R., Dutch Ph.D. Thesis 39
Visser, H.C., R. Vink, B.H.M. Snellink-Ruel, S.B.M. Kokhuis, S. Harkema, F. de Jong and **D.N. Reinhoudt**
Alkali-cation transport through supported liquid membranes mediated by solvent-linked carriers 285
Vollinga, R.C., Dutch Ph.D. Thesis 339
Von der Haar, Th., A. Hebecker, Y. Il'ichev, Y.-B. Jiang, W. Kühnle and **K.A. Zachariasse**
Excited-state intramolecular charge transfer in donor/acceptor-substituted aromatic hydrocarbons and in biaryls. The significance of the redox potentials of the D/A subsystems 430
Von Matt, P., see **Koch, G.** 206
Wagenaar, A., see **de Groot, R.W.** 371
Walters, I.A.S., see **Davies, S.G.** 175
Wegewijs, B., A.K.F. Ng and **J.W. Verhoeven**
Coulomb-induced intramolecular exciplex formation in semiflexible donor-bridge-acceptor compounds in nonpolar solvents as a function of temperature 6
Wegewijs, B., see **Jiwan, J.-L.H.** 542
Wegewijs, B., see **Verhoeven, J.W.** 443
Weimin, W., Y. Yongnian and **Z. Jiayu**
Redox behavior of trimanganese tetraoxide catalysts 22
Wienand, A., see **Brown, J.M.** 242
Wierzchleyski, A.T., see **Christian, P.W.N.** 195
Wijsman, G.W., Dutch Ph.D. Thesis 112
Willner, I., see **Dürr, H.** 549
Winchester, W.R., see **Doyle, M.P.** 163
Winkel, C., see **Noomen, S.N.** 321
Witholt, B., see **Wubbolts, M.G.** 139
Woźniak, M., M. Grzegożek, W. Roszkiewicz and **B. Szpakiewicz**
Amination of dinitrobenzenes with liquid methylamine/potassium-permanganate 13
Wubbolts, M.G., R. Noordman, J.B. van Beilen and **B. Witholt**
Enantioselective oxidation by non-heme iron mono-oxygenases from Pseudomonas 139
Wynberg, H., see **Hulst, R.** 220
Yang, C.I., see **Doyle, M.P.** 163
Yongnian, Y., see **Weimin, W.** 22
Zachariasse, K.A., see **von der Haar, Th.** 430
Zahavy, E., see **Dürr, H.** 549
Zwanenburg, B., see **Raaijmakers, H.W.C.** 301
Zwanenburg, B., see **van der Linden, J.B.** 51
Zwanenburg, B., see **van der Linden, J.B.** 91

Recl. Trav. Chim. Pays-Bas **114**, 581–586 (1995) 0165–0513/95/11/12581–06$9.50

Subject Index

2–5A trimer core, 3′-fluoro-3′-deoxyadenosine, binding to mouse RNase L, 43
ab initio, see quantum chemistry
abasic lesion, DNA, bulged conformation, 79
absolute configuration, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
absorbance, in Cu detn. by DWS, 61
acceptor–donor systems, see donor–acceptor systems
acetophenones, methoxy–, addn. to cyclopentene and ethoxyethene, 485
***N*-acetylphenylalanine esters,** transesterification, enantioselectivity, 255
acoustics, volume change during electron transfer, 543
acrylates, polymerization, 528
activation energy, Coulomb-induced exciplex in donor–bridge–acceptor systems, 6
adamantanones, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
adenosine, 3′-fluoro-3′-deoxy, binding to mouse RNase L, 43
aggregation behavior, 2-(4-butyloctyl)malonic acid, 372
aldehydes, enantioselective alkylation using phosphoramidates and phosphinamides, 145
alditol ethers, mesogenic D-glucitol and D-mannitol derivs., 301
alicyclic compounds, Rodd's chemistry of carbon compounds, 2nd suppl., 2nd edn., book, 40, 41
alkali-cation transport, liquid membranes, 285
alkaloids, 1,3-oxazepine, ring closure, 37
alkane hydroxylase, for enantioselective oxidation, review, 139
***S*-(alkylsulfanyl)cysteine,** solid-phase synthesis, stability, 1
allenyl sulfones, for thiophenes, 51
2-(allylalkylamino)cyclohex-2-enones, photochemical rearrangement, 492
allylsilanes, with SO_3, 410
Amadori rearrangement products, 321
amination, dinitrobenzenes, 13
amines, in photo-initiated polymerization of acrylates, 528
amino acids, α-substd., in dipeptides, 231; derivatives, enzymatic ammoniolysis, 171; synth. using Cu-catalyzed atom transfer, thesis, 377
aminobenzonitriles, excited-state charge transfer in aromatics, 430
2-aminocyclohex-2-enones, photochemical rearrangement, 492
2-aminopropenenitriles, photoaddition to diarylethanediones, 498
aminoxy, in nitroxide analogs of retinal, 403
ammonia, hydrogenation of monobenzenoids by solvated electrons, review, 259; in asymmetric synthesis of *anti*-α-alkyl-β-amino carboxamides, 175; super-dry, 35
ammoniolysis, amino acid derivatives, 171
anesthetics, inhalation –, enantiomeric separation, 211
anilines, + butyl nitrite → (chloro)aromatics, 311
anomeric effect, and associated electronic effects, book, 78; stereochemistry, book, 300
anthophorene, 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504
anthracene, 9,9′-(ethane-1,2-diyl)bis–, in cryptand ring, 504
anthraquinone, 2-methyl–, Ru 2,2′-bipyridine complexes, quenching, 557
antiaromaticity, book, 378
antibiotics, gilvocarcins, review, 341
aromaticity, book, 378
aromatics, from anilines and butyl nitrite, 311
ARP, Amadori rearrangement product, 321
association constants, Ru 2,2′-bipyridine complexes, quenching, 557
asymmetric synthesis, *anti*-α-alkyl-β-amino carboxamides, 175; $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195; from dispiroketals, 184; solenopsins A, B, C, 153
automotive catalysts, Rh-free, thesis, 339
aza crown ethers, MM and MD of Eu^{III} calix[4]arenes, 387
aza-diarylethenes, photochemistry and -physics, 459
1-azaspiro[2.5]octan-4-ones, from photochemical rearrangement of 2-(allylalkylamino)cyclohex-2-enones, 492
aziridinium ion, in eudistomin rearrangement, 27
azocyclopropane *N,N′*-dioxide, crystal structure, 395
bacterioopsin, interaction with nitroxide analogs of retinal, 403
basic concepts of chemistry, book, 340
basket-shaped molecules, see host–guest chemistry
Baylis–Hillman adducts, stereo-controlled dihydroxylation, 239
Beilstein handbook, intermediate organic chemistry, book, 114
benzaldehyde, enantioselective alkylation using phosphoramidates and phosphinamides, 145
benzenoids, mono–, hydrogenation by solvated electrons, review, 259
benzonitrile, 4-(dimethylamino)–, in crown4 en crown5 ring, fluoroionophores, 517
benzonitriles, dimethyl–, addn. to cyclopentene and ethoxyethene, 485
benzophenone, initiating photoaddition of 1,3-dioxin-4-ones, 483
benzo[*d*]naphtho[1,2-*b*]pyrans, gilvocarcins, review, 341
benzo[*f*]quinoline, (*E*)-5-[2-(pyrid-4-yl)ethenyl]–, photochemistry and -physics, 459
benzylamine, (*S*)-α-methyl–, for $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195
bianthryls, excited-state charge transfer in aromatics, 430
bicyclo[5.3.1]undecanes, unsaturated –, thesis, 112
binding, diphenylglycoluril derivs., basket-shaped, 65; 3′-fluoro-3′-deoxyadenosine to mouse RNase L, 43
biomolecular electronics, book, 340
Bipy, see 2,2′-bipyridine
2,2′-bipyridine-3,3′-diamines, hydrogen bonding in acylated –, 277
2,2′-bipyridine, $Mn(CO)_3$ complexes, photochemical transformation, 566; Ru complexes, quenching, 557
biradicals, in photoaddition of 2-aminopropenenitriles to diarylethanediones, 498
book reviews, see books
books, anomeric and associated electronic effects, 78; aromaticity and antiaromaticity, 378; basic concepts of chemistry, 340; catalysis of organic reactions, 379; chemical nomenclature and computer, 113; computation in supramolecular chemistry, 299; conceptual trends in quantum chemistry, 41; EPR, 42; inorganic experiments, 424; intermediate organic chemistry, 114; IR spectra of organic structures, 114; isopentenoids, 378; Merrifield solid-phase peptide synthesis, 77; metalloporphyrins in catalytic oxidations, 77; molecular and biomolecular electronics, 340; organic coatings, 40; polymer gas-separation membranes, 299; reagents for organic synthesis, 424; Rodd's chemistry of carbon compounds, alicyclic compounds, 2nd suppl., 2nd edn., 40, 41; stereochemistry, 300, 379; sulfur-contg. functional groups, 378; ultrafast dynamics of chemical systems, 113
bridged aromatic compounds, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
bulged conformation, DNA, 79
bullvalene, dihydrosemi–, cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
but-1-enes, 3-alkyl-4-phenoxy–, *meta* photocycloadducts, 480
but-3-enamide, *anti*-α-alkyl-β-amino –, asymm. synth., 175
butadienyl anions, in gas phase, 267
butyl nitrite, + anilines → (chloro)aromatics, 311
butyllithium, with 1-vinylpyrrole, 18
cage molecules, see host–guest chemistry
calcium, Ca^{2+}, complexation with 1-*O*-octyl-β-D-mannofuranoside, 421
calculation, UV frequencies, photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
calix[4]arenes, MM and MD of Eu^{III}, 387; molecular recognition, thesis, 339; + resorcinarenes, thesis, 112; upper-rim-functionalized, 103
calorimetry, titration micro–, Ca^{2+} with 1-*O*-octyl-β-D-mannofuranoside, 421; volume change during electron transfer, 543
CAOS, see computer-assisted organic synthesis
captodative stabilization, in photoaddition of 2-aminopropenenitriles to diarylethanediones, 498
carbene transformations, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], 163
carbohydrates, Amadori rearrangement products, 321; anomeric and associated electronic effects, book, 78; glucose, optical determination, thesis, 298; hydrothermolysis, thesis, 76; mesogenic D-glucitol and D-mannitol derivs., 301; SLe^x mimic, 398; sucrose, chemical use, thesis, 76
carbon dioxide, insertion of Pd complexes, thesis, 377
carbonyls, Cr complexes with enantiomeric *o*-substd. styrenes, 195; $Fe(CO)_3COD$, photolyse, 572; Mn complexes, photochemical transformation, 566; $Rh^I(CO)H$-centered cyclotriveratrylene, 381

carboxamides, *anti*-α-alkyl-β-amino –, asymm. synth., 175
carboxylic acids, with chiral solvating agent, 253
carbyl sulfates, allylsilanes with SO_3, 410
carotinoids, nitroxide analogs of retinal, 403
carriers, solvent-linked –, alkali-cation transport through liquid membranes, 285
catalysis, enantioselective addition of Zn dialkyls to aldehydes using phosphoramidates and phosphinamides, 145; hydrogenation by Ru and Rh diphosphine complexes, 242; lanthanides, thesis, 76; metalloporphyrins in oxidations, book, 77; organic reactions, book, 379; Rh-free automotive catalysts, thesis, 339; Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
CD, see circular dichroism
charge transfer (CT), in aromatics, excited state, 430; fluorescence, electronic coupling in donor–acceptor systems, 443; volume change during electron transfer, 543
Chem. Abstr., intermediate organic chemistry, how to find references, book, 114
chemical nomenclature, and computer, book, 113
chemistry, basic concepts, book, 340
chirality, see also enantio...; special issue, Nrs. 4 + 5, 115–257; *anti*-α-alkyl-β-amino carboxamides, asymmetric synthesis, 175; $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195; cyclic phosphoric acids, 220; dipeptides, α-substd., ligands in Lewis-acid-catalyzed reactions, 231; diphenylglycoluril derivs., basket-shaped, 65; dispiroketals, 184; enantiomers, preferred expression for composition, 203; enantioselective alkylation of aldehydes using phosphoramidates and phosphinamides, 145; enantioselective oxidation by non-heme iron mono-oxygenases, review, 139; hexahelicene, 470; induced in guest molecule by dendrimeric host, 225; inhalation anesthetics, enantiomeric separation, 211; isovaline peptides, 325; 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157; Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163; for solenopsins A, B, C, asymmetric synthesis, 153; solvating agent for carboxylic acids, 253; sulfines, from dithio esters, 91
chloroaromatics, from anilines and butyl nitrite, 311
chlorodeamination, anilines by butyl nitrite, 311
chromium, $(CO)_3$ complexes with enantiomeric *o*-substd. styrenes, 195
cinnamamide, *anti*-α-alkyl-β-amino –, asymm. synth., 175
circular dichroism (CD), chirality induced in guest molecule by dendrimeric host, 225; hydrogen bonding in acylated 2,2′-bipyridine-3,3′-diamines, 277; 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
cisplatin, DNA repair damaged by –, thesis, 39
CMC, see critical micellar concentration
coatings, organic –, book, 40
COD, see cycloocta-1,5-diene
complexation, see also exciplexes; Ca^{2+} with 1-*O*-octyl-β-D-mannofuranoside, 421; 4-(dimethylamino)benzonitrile-crown4, -crown5, 517; Zn, pyrazolato-bridged, 317
computational chemistry, MM and MD of Eu^{III} calix[4]arenes, 387
computation, in supramolecular chemistry, book, 299
computer, and chemical nomenclature, book, 113
computer-assisted organic synthesis (CAOS), algorithms for data conversion, thesis, 339
conductivity, electric –, Ir oxides, thesis, 112; Ni 1,3-dithiole-4,5-dithiol complex, 337
configuration, isoflurane and desflurane, 211; 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
conformation, 3-alkyl-4-phenoxybut-1-enes, 480; Coulomb-induced exciplex in donor–bridge–acceptor systems, 6; DNA, bulged –, 79; fluorescent exciplexes, 39; isovaline peptides, 325; nucleic acid constituents, thesis, 298; photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449; platinum–DNA binding, thesis, 112; 2-(trifluoromethyl)piperazine, 97; upper-rim-functionalized calix[4]arenes + partly bridged resorcinarenes, 103
coordination, see complexation
Cope reaction, for $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195
coplanarity, acylated 2,2′-bipyridine-3,3′-diamines, 277
copper, catalyzing atom transfer, thesis, 377; detn. by DWS, 61; organo–, gilvocarcins, review, 341
Cossee mechanism, insertion in Pd–phosphine–phosphinites, 73
Coulomb-induced exciplexes, donor–bridge–acceptor systems, 6
critical micellar concentration (CMC), mesogenic D-glucitol and D-mannitol derivs., 301
crotonamide, *anti*-α-alkyl-β-amino –, asymm. synth., 175
crown ethers, with salen ligand in ring, 273; alkali-cation transport through liquid membranes, 285; diphenylglycoluril derivs., basket-shaped, 65; 9,9′-(ethane-1,2-diyl)bis(anthracene) in ring, 504; MM and MD of Eu^{III} calix[4]arenes, 387
cryptands, 9,9′-(ethane-1,2-diyl)bis(anthracene) in ring, 504
crystal structure, *anti*-α-alkyl-β-amino carboxamide, 175; azocyclopropane *N,N*′-dioxide, 395; 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504; isovaline peptides, 325; Ni 1,3-dithiole-4,5-dithiol complex, 337; Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], 163; Zn complex, pyrazolato-bridged, 317
CT, see charge transfer
cyanides, Ru, volume change during electron transfer, 543
cyclic voltammetry, $Mn(CO)_3$ complexes, photochemical transformation, 566
cyclization, see ring closure
cycloaddition, *ortho* and *meta*, cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
cyclodextrins, inhalation anesthetics, enantiomeric separation, 211
cyclohex-2-enones, 2-(allylalkylamino)–, photochemical rearrangement, 492
cyclohexa-1,3-diene, 1,4-dimethyl–, photochemistry in argon matrices, 449
cycloocta-1,5-diene (COD), $Fe(CO)_3COD$, photolyse, 572
cyclopenta[2,1-b;3,4-b′]dipyridine, Ru^{II} and Os^{II} complexes, dinuclear, 534
cyclopentene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
cyclophos, phosphoric acids, dynamic behavior, 220
cyclopropanation, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
cyclopropane *N,N*′-dioxide, azo–, crystal structure, 395
cyclopropanes, synth. using Cu-catalyzed atom transfer, thesis, 377
cyclotriveratrylene, $Rh^{I}(CO)H$-centered, 381
cylohexa-1,4-dienes, from hydrogenation of monobenzenoids by solvated electrons, review, 259
cylohexenes, from hydrogenation of monobenzenoids by solvated electrons, review, 259
cysteine, *S*-(alkylsulfanyl)–, solid-phase synthesis, stability, 1
cytochrome c-550, and MADH redox chain, thesis, 39
C–H insertion, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
deamination, anilines by butyl nitrite, 311
dendrimeric host, inducing chirality in guest molecule, 225
density functional theory (DFT), 4-(dimethylamino)benzonitrile-crown4, -crown5, 517
desflurane, enantiomeric separation, 211
detergents, Ca-tolerant 1-*O*-octyl-β-D-mannofuranoside, 421
deuteration, butadienyl anions, 267; catalyzed by Ru and Rh diphosphine complexes, 242
DFT, see density functional theory
diarylethanediones, photoaddition to 2-aminopropenenitriles, 498
diastereoisomery, see stereochemistry
diastereoselectivity, in hydrogenation, catalyzed by Ru and Rh diphosphine complexes, 242
diastereotopicity, solvating agent for carboxylic acids, 253
1,8-diazafluorene, Ru^{II} and Os^{II} complexes, dinuclear, 534
diazo intermediate, from anilines and butyl nitrite, 311
diazoacetates, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
dielectric constant, Coulomb-induced exciplex in donor–bridge–acceptor systems, 6
Diels–Alder reaction, gilvocarcins, review, 341
dienes, insertion of Pd complexes, thesis, 377
***vic*-diimines,** $Mn(CO)_3$ complexes, photochemical transformation, 566
1,2-diketones, photoaddition to 2-aminopropenenitriles, 498
4-(dimethylamino)benzonitrile, in crown4 en crown5 ring, fluoroionophores, 517
dimethyldioxirane (Me_2CO_2), for $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195
dimethyl sulfoxide (DMSO), 1,3-oxazepine, ring closure, 37
dinitrobenzenes, methylamination, 13
diols, from dispiroketals, 184
1,3-dioxin-4-ones, photoaddition, 483
dioxirane, dimethyl–, for $Cr(CO)_3$ complexes with *o*-substd. styrenes, 195
dipeptides, α-substd., ligands in Lewis-acid-catalyzed reactions, 231
diphenylglycoluril, host–guest chemistry, 65
diphospha-aromatics, theses, 377
diphosphenes, theses, 377
diphosphine, Ru and Rh complexes, hydrogenation catalysts, 242
dispiroketals, functionalized, 184
dispoke, protecting group, 184
dithio esters, for chiral sulfines, 91
1,3-dithiole-4,5-dithiol, Ni complex, crystal structure, 337
DMSO, see dimethyl sulfoxide
DNA, bulged conformation, 79; cisplatin-damaged, repair, thesis, 39; 3′-fluoro-3′-deoxyadenosine, binding to mouse RNase L, 43; genomic position and mutagenesis, thesis, 76; PNA-DNA hybrid, solid-phase synthesis, 295; Pt binding, thesis, 112
donor–acceptor systems, charge-transfer fluorescence, 443; excited-state charge transfer in aromatics, 430

donor–bridge–acceptor systems, Coulomb-induced exciplexes, 6; emissive state, thesis, 39
Dotz carbene chromium benzannulation, gilvocarcins, review, 341
dual fluorescence, excited-state charge transfer in aromatics, 430
dual-wave spectrophotometry (DWS), Cu detn., 61
DWS, see dual-wave spectrophotometry
dynamic behavior, cyclic phosphoric acids, 220
dynamics, ultrafast –, chemical systems, book, 113
E-selectin, binding by SLe^x mimic, 398
EBBR, see eriochrome blue black R
ee, see enantiomeric excess
electrochemistry, $Mn(CO)_3$ complexes, photochemical transformation, 566; Ru 2,2′-bipyridine complexes, quenching, 557; Ru^{II} and Os^{II} complexes, dinuclear, 534; solvated electrons, hydrogenation of monobenzenoids, review, 259
electron paramagnetic resonance (EPR), book, 42
electron spin echo (ESE), tetradecahexaenal, lowest triplet state, 425
electron spin resonance (ESR), nitroxide analogs of retinal, 403
electron transfer (ET), Coulomb-induced exciplex in donor–bridge–acceptor systems, 6; $Mn(CO)_3$ complexes, photochemical transformation, 566; porphyrazine metal^{II} complexes, in micelles, 550; Ru 2,2′-bipyridine complexes, quenching, 557; styrylpyrroles, photochemistry, 476; ultrafast, book, 113; volume change during MLCT, 543
electron-transfer chain (ETC), $Mn(CO)_3$ complexes, photochemical transformation, 566
electronic aspects, aromaticity and antiaromaticity, book, 378
electronic coupling, in donor–acceptor systems, 443
electronics, (bio)molecular –, book, 340
electrons, solvated –, electrochemistry, hydrogenation of monobenzenoids, review, 259
emissive state, in donor–bridge–acceptor systems, thesis, 39
enantiocontrol, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
enantiomeric composition (*ec*), preferred expression?, 203
enantiomeric excess (*ee*), see also chirality; cyclic phosphoric acids, 220; determination based on ^{31}P-NMR, review, 115; preferred expression?, 203; solvating agent for carboxylic acids, 253
enantiomeric hexahelicene, photosynthesis, 470
enantiomeric ratio (*q*), preferred expression?, 203
enantiomeric separation, inhalation anesthetics, 211
enantiomers, preferred expression for composition, 203
enantioselectivity, aldehydes using phosphoramidates and phosphinamides, alkylation, 145; non-heme iron mono-oxygenases, oxidizers, review, 139; serine proteases, inversion for transesterification, 255
enflurane, enantiomeric separation, 211
enzymatic ammoniolysis, amino acid derivatives, 171
enzymes, 3′-mouse RNase L binding to fluoro-3′-deoxyadenosine, 43; non-heme iron mono-oxygenases for enantioselective oxidation, review, 139; protease, amino acid derivatives, enzymatic ammoniolysis, 171; serine proteases, inversion of enantioselectivity of transesterification, 255; squalene synthase, 332
epoxides, from enantioselective oxidation by oxygenases, review, 139
EPR, see electron paramagnetic resonance
eriochrome blue black R (EBBR), detn. of Cu complex by DWS, 61
ESE, see electron spin echo
ESR, see electron spin resonance
esters, α-alkylidene-β-hydroxy –, stereo-controlled dihydroxylation, 231; α,β-unsaturated, γ-hydroxy- and γ-alkoxy– with cyclic nitrones, 357
ET, see electron transfer
ETC, see electron-transfer chain
9,9′-(ethane-1,2-diyl)bis(anthracene), in cryptand ring, 504
ethene, ethoxy–, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
eudistomin, rearrangement, 27
europium, MM and MD of Eu^{III} calix[4]arenes, 387
exciplexes, conformation and fluorescence, 39; Coulomb-induced donor–bridge–acceptor systems, 6; excited-state charge transfer in aromatics, energetics, 430
excited state, charge transfer in aromatics, 430
exciton CD, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
exciton coupling, induced chirality in guest molecule by dendrimeric host, 225
E–Z isomerization, liquid–crystal host–guest systems, 465
FAB-MS, see fast-atomic-bombardment mass spectrometry
farnesyl-farnesyl-enzyme (FFE), squalene synthase, inhibitor, 332
fast-atomic-bombardment mass spectrometry (FAB-MS), Amadori rearrangement products, 321; salen crown ethers, 273
flavor, Maillard reaction, 321
***N*-(fluoren-9-ylmethylenoxycarbonyl)-*S*-(*tert*-butylsulfanyl)cysteine,** solid-phase synthesis, Fmoc strategy, stability, 1
fluorescence, charge transfer, electronic coupling in donor–acceptor systems, 443; Coulomb-induced exciplex in donor–bridge–acceptor systems, 6; 4-(dimethylamino)benzonitrile-crown4, -crown5, 517; 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504; exciplexes, conformation, 39; excited-state charge transfer in aromatics, 430
3′-fluoro-3′-deoxyadenosine, binding to mouse RNase L, 43
fluoroionophores, 4-(dimethylamino)benzonitrile-crown4, -crown5, 517
fluorometry, aza-diarylethenes, effect of N-atom, 459
FMO, see frontier molecular orbital
Fmoc, see fluoren-9-ylmethylenoxycarbonyl
folding, Coulomb-induced exciplex in donor–bridge–acceptor systems, 6
fourier-transform ion-cyclotron-resonance mass-spectrometry (FT-ICR-MS), butadienyl anions in gas phase, 267;
Fourier transform IR (FT-IR), isovaline peptides, 325
frameshifting, pseudoknot-dependent ribosomal –, thesis, 298
frontier molecular orbital (FMO), quantum chemistry of dinitrobenzenes, 13
fructose, chemical use, thesis, 76
FT-ICR-MS, see Fourier-transform ion-cyclotron-resonance mass-spectrometry
FT-IR, see Fourier transform IR
fucosylation, SLe^x mimic, 398
functional groups, sulfur-contg., book, 378
gas chromatography (GC), inhalation anesthetics, enantiomeric separation, 211
gas phase, butadienyl anions in –, 267
gas-separation membranes, book, 299
GC, see gas chromatography
genomic position, and mutagenesis, thesis, 76
geometry, azocyclopropane *N,N′*-dioxide, 395
gilvocarcins, review, 341
D-glucitol, mesogenic derivs., 301
glucose, Amadori rearrangement products, 321; chemical use, thesis, 76; optical determination, thesis, 298
glutaric anhydride, for solenopsins A, B, C, asymmetric synthesis, 153
glycines, α,α-disubstituted, for peptides, 325
glycoluril, diphenyl–, host–guest chemistry, 65
guest molecules, see host–guest chemistry
HAM/3, 2-(trifluoromethyl)piperazine, 97
harpooning mechanism, Coulomb-induced exciplex in donor–bridge–acceptor systems, 6
helix, isovaline peptides, 325
heteroconjugate addition, thiophenes from allenyl sulfones, 51
hexamethylphosphoric amide (HMPA), hydrogenation of monobenzenoids by solvated electrons, review, 259
hexa-1,3,5-trienes, 2,5-dimethyl–, photochemistry in argon matrices, 449
hexahelicene, photosynthesis, 470
histamine, H3 receptor, ligands, thesis, 339
HMPA, see hexamethylphosphoric amide
hopanoids, isopentenoids, book, 378
host–guest chemistry, calix[4]arenes in molecular recognition, thesis, 339; chirality induced in guest molecule by dendrimeric host, 225; computation, book, 299; diphenylglycoluril, 65; 9,9′-(ethane-1,2-diyl)-bis-(anthracene) in cryptand ring, 504; photoisomerization, liquid–crystal systems, 465; $Rh^I(CO)H$-centered cyclotriveratrylene, 381; upper-rim-functionalized calix[4]arenes + partly bridged resorcinarenes, 103
hydride, $Rh^I(CO)H$-centered cyclotriveratrylene, 381
hydrocarbons, from anilines and butyl nitrite, 311
hydrogels, silica –, hydrothermally aged, thermoporometry, 361
hydrogen bonding, in acylated 2,2′-bipyridine-3,3′-diamines, 277; solvating agent to carboxylic acids, 253
hydrogen transfer, styrylpyrroles, photochemistry, 476
hydrogenation, catalyzed by Ru and Rh diphosphine complexes, 242; monobenzenoids by solvated electrons, review, 259
hydrothermolysis, carbohydrates, thesis, 76
ICT, see intramolecular charge transfer
imines, *vic*-di–, $Mn(CO)_3$ complexes, photochemical transformation, 566
indole alkaloids, 1,3-oxazepine, ring closure, 37
infrared, see IR
inhalation anesthetics, enantiomeric separation, 211
inhibitor, squalene synthase, 332
inorganic experiments, book, 424
intensity borrowing, in donor–acceptor systems, 443
intermediate organic chemistry, book, 114
intermolecular self-addition, styrylpyrroles, photochemistry, 476
intramolecular charge transfer (ICT), in aromatics, excited state, 430
inulin, chemical use, thesis, 76
inversion of enantioselectivity, serine proteases, 255

iridium, oxides, thesis, 112
iron, $Fe(CO)_3COD$, photolyse, 572; non-heme mono-oxygenases for enantioselective oxidation, review, 139
iron–sulfur proteins, subsite-differentiated, thesis, 298
IR, $Fe(CO)_3COD$, photolyse, 572; isovaline peptides, 325; $Mn(CO)_3$ complexes, photochemical transformation, 566; Mn_3O_4 catalysts, redox behavior, 22; organic structures, book, 114; photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
isoflurane, enantiomeric separation, 211
isomerization, 2-(allylalkylamino)cyclohex-2-enones, photochemical, 492; Amadori rearrangement products, 321; 2,5-dimethylhexa-1,3,5-trienes in argon matrices, photochemical, 449; eudistomin, 27; $Fe(CO)_3COD$, photo-induced, 572; tertiary alcohols by thionyl chloride + pyridine, 87
isopentenoids, book, 378
isotopomers, $Fe(CO)_3COD$, photolyse, 572
isovaline, screw sense of peptides, 325
isoxazoles, dihydro–, from photocyclization of β,γ-unsaturated oximes, 514
ketones, α-alkylidene-β-hydroxy –, stereo-controlled dihydroxylation, 231
ketyl radicals, in photoaddition of 1,3-dioxin-4-ones, 483
kinetics, Coulomb-induced exciplex in donor–bridge–acceptor systems, 6; cyclic phosphoric acids, 220; Ru 2,2′-bipyridine complexes, quenching, 557; 1-vinylpyrrole, metallation, 18
Krafft temperature, mesogenic D-glucitol and D-mannitol derivs., 301
labeling, $Fe(CO)_3COD$, ^{13}CO, photolyse, 572
lactones, synth. using Cu-catalyzed atom transfer, thesis, 377
lanthanides, catalysis, thesis, 76; MM and MD of Eu^{III} calix[4]arenes, 387
lariat, diaza crown, MM and MD of Eu^{III} calix[4]arenes, 387
laser spectroscopy, ultrafast, book, 113
laser-induced optoacoustics (LIOAS), volume change during electron transfer, 543
laser-flash photolysis, $Fe(CO)_3COD$, photolyse, 572
Lennard–Jones parameters, MM and MD of Eu^{III} calix[4]arenes, 387
levulinic acid, hydrothermolysis, thesis, 76
Lewis-acid-catalyzed reactions, dipeptides, α-substd., as ligands, 231
LHASA, algorithms for data conversion in CAOS, thesis, 339
lignans, isopentenoids, book, 378
LIOAS, see laser-induced optoacoustics
lipase, amino acid derivatives, enzymatic ammoniolysis, 171
liquid ammonia, see ammonia
liquid membranes, alkali-cation transport, 285
liquid–crystal systems, enantiomeric hexahelicene, 470; mesogenic D-glucitol and D-mannitol derivs., 301; photoisomerization, host–guest systems, 465
lithiation, 1-vinylpyrrole, 18
low-frequency band, in IR of Mn_3O_4 catalysts, 22
luminescence, Ru^{II} and Os^{II} complexes, dinuclear, 534
lyotropic behavior, mesogenic D-glucitol and D-mannitol derivs., 301
macrocycles, 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504; with salen ligand in crown-ether ring, 273
MADH, see methylamine dehydrogenase
magnetism, Ir oxides, thesis, 112
Maillard reaction, Amadori rearrangement, 321
malonic acid, 2-(4-butyloctyl)–, aggregation behavior, 372
manganese, $Mn(CO)_3$ complexes, photochemical transformation, 566; Mn_3O_4, redox behavior, 22
D-mannitol, mesogenic derivs., 301
β-D-mannofuranoside, 1-*O*-octyl–, complexation with Ca^{2+}, 421
Marcus inverted region, Ru 2,2′-bipyridine complexes, quenching, 557
MD, see molecular dynamics
mechanism, allylsilanes with SO_3, 410; hydrogenation, catalyzed by Ru and Rh diphosphine complexes, 242; stereo-controlled dihydroxylation of Baylis–Hillman adducts, 239
Meerwein reaction, gilvocarcins, review, 341
membranes, alkali-cation transport, 285; gas separation, book, 299
***l*-menthone,** in enantioselective photoaddition of 1,3-dioxin-4-ones, 483
Merrifield, solid-phase peptide synthesis, book, 77
mesogenic, D-glucitol and D-mannitol derivs., 301
***meta* cycloaddition,** cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
[5]*meta*cyclophanes, thesis, 112
metal-to-ligand charge transfer (MLCT), $Mn(CO)_3$ complexes, photochemical transformation, 566; volume change during electron transfer, 543
metallation, 1-vinylpyrrole, 18
metallohost, $Rh^{I}(CO)H$-centered cyclotriveratrylene, 381
metalloporphyrins, in catalytic oxidations, book, 77
7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, CD, UV, 157
methylamine dehydrogenase (MADH), cytochrome c-550, thesis, 39
methylamine/K-permanganate, amination of dinitrobenzenes, 13
2-methylanthraquinone, Ru 2,2′-bipyridine complexes, quenching, 557
methylpalladium, –phosphine–phosphinites, Cossee mechanism, 73
methylthiomethoxy, from activated DMSO, 37
micelles, porphyrazine metal^{II} complexes, photophysics, 550
Michael addition, *anti*-α-alkyl-β-amino carboxamides, asymmetric synthesis, 175; to dispiroketals, 184
Mitsunobu reaction, in eudistomin rearrangement, 27
MLCT, see metal-to-ligand charge transfer
MM, see molecular mechanics
MM3 calculations, photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
Mn_3O_4 catalysts, redox behavior, 22
molar absorbance, in Cu detn. by DWS, 61
molecular dynamics (MD), Eu^{III} calix[4]arenes, 387
molecular electronics, book, 340
molecular mechanics (MM), Eu^{III} calix[4]arenes, 387
molecular recognition, calix[4]arenes, thesis, 339
mono-oxygenases, non-heme iron –, for enantioselective oxidation, review, 139
monobenzenoids, hydrogenation by solvated electrons, review, 259
MOPAC calculation, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
mouse RNase L, 3′-fluoro-3′-deoxyadenosine, binding, 43
mutagenesis, and genomic position, thesis, 76
myelins, 2-(4-butyloctyl)malonic acid, 372
naphthalene, (*E*)-1-(2-phenylethenyl)–, photochemistry and -physics, 459
naphthalene-1,4-diol, perhydro–, monosulfonate esters, orbital interactions, thesis, 39
naphthalenes, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]di-, CD, UV, 157
neighboring-group participation, in eudistomin rearrangement, 27
NH_3, see ammonia
nickel, 1,3-dithiole-4,5-dithiol complex, crystal structure, 337
nitrones, cyclic, with γ-hydroxy- and γ-alkoxy α,β-unsaturated esters, 357
nitrous oxide, with butadienyl anions, 267
NMR, ^{13}C, diphenylglycoluril derivs., basket-shaped, 65; Pd–phosphine–phosphinites, Cossee mechanism, 73
NMR, ^{19}F, inhalation anesthetics, 211
NMR, ^{1}H, 3-alkyl-4-phenoxybut-1-enes, 480; Amadori rearrangement products, 321; dinitro(methylamino)benzenes, 13; DNA, bulged conformation, multi-dimensional –, 79; hydrogen bonding in acylated 2,2′-bipyridine-3,3′-diamines, 277; inhalation anesthetics, 211; isovaline peptides, 325; $Rh^{I}(CO)H$-centered cyclotriveratrylene, 381; 2-(trifluoromethyl)piperazine, 97; upper-rim-functionalized calix[4]arenes + partly bridged resorcinarenes, 103
NMR, ^{31}P, enantiomeric excess, determination, review, 115; Pd–phosphine–phosphinites, Cossee mechanism, 73; $Rh^{I}(CO)H$-centered cyclotriveratrylene, 381
NMR, ^{103}Rh, $Rh^{I}(CO)H$-centered cyclotriveratrylene, 381
nomenclature, and computer, book, 113; intermediate organic chemistry, book, 114
non-heme iron mono-oxygenases, for enantioselective oxidation, review, 139
non-reciprocal behavior, cyclic phosphoric acids, 220
norephedrine, phosphoramidates and phosphinamides in enantioselective alkylation of aldehydes, 145
nuclear magnetic resonance, see NMR
nucleic acids, see also DNA; conformation, thesis, 298
1-*O*-octyl-β-D-mannofuranoside, complexation with Ca^{2+}, 421
odor, see flavor
on-line solid-phase synthesis, PNA-DNA hybrid, 295
optical determination, aqueous glucose, thesis, 298
optically transparant thin-layer electrochemistry (OTTLE), $Mn(CO)_3$ complexes, photochemical transformation, 566;
optoacoustics, volume change during electron transfer, 543
orbital interactions, in perhydronaphthalene-1,4-diol monosulfonate esters, thesis, 39
organic chemistry, book, 114
organic coatings, book, 40
organo-, *e.g.* organocopper, see copper
***ortho* cycloaddition,** cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485
osmium, Os^{II} complexes, photo-induced energy and electron transfer, 534
OTTLE, see optically transparant thin-layer electrochemistry
4-oxatetracyclo[5.4.0.0^{1,8}.0^{5,11}]undec-9-enes, 3-alkyl-4-phenoxybut-1-enes, 480
1,3-oxazepine, ring closure, 37
oxazepinoindoloquinolizine, 37
oxazolidine-4(*S*)-carboxylate], Rh_2 tetrakis[methyl 2-oxo–, carbene transformations, 163
oxetanes, from photoaddition of 2-aminopropenenitriles to diarylethanediones, 498
oximes, β,γ-unsaturated, photocyclization to dihydroisoxazoles, 514
oxolanyl radicals, in photoaddition of 1,3-dioxin-4-ones, 483

5-oxooxazolidine-4(*S*)-carboxylate, Rh complex, carbene transformations, 163
oxygenases, non-heme iron –, for enantioselective oxidation, review, 139
palladium, complexes, insertion, thesis, 377; phosphine–phosphinites, Cossee mechanism, 73
Parikh–Doering procedure, activating DMSO, 37
Paternò–Büchi reaction, photoaddition of 2-aminopropenenitriles to diarylethanediones, 498
Pechmann condensation, gilvocarcins, review, 341
peptides, bond formation in PNA-DNA hybrid, solid-phase synthesis, 295; di–, α-substd., 231; from α,α-disubstituted glycines, 325; Merrifield solid-phase peptide synthesis, book, 77
permanganate / methylamine, amination of dinitrobenzenes, 13
Peterson reaction, modified, thiophenes from allenyl sulfones, 51
phase penetration, 2-(4-butyloctyl)malonic acid, 372
4-phenoxybut-1-enes, 3-alkyl-, *meta* photocycloadducts, 480
phenylalanine esters, *N*-acetyl–, transesterification, enantioselectivity, 255
phenylalanine, in dendrimeric host, inducing chirality in guest molecule, 225
phenylglycine methyl ester, enzymatic ammoniolysis, 171
phosphinamides, in enantioselective alkylation of aldehydes, 145
phosphines, Pd phosphinites, Cossee mechanism, 73; Ru and Rh complexes, hydrogenation catalysts, 242
phosphinites, palladium–phosphines, Cossee mechanism, 73
phosphinylphosphonate, squalene synthase, inhibitor, 332
phosphite, triphenyl –, in $Rh^{I}(CO)H$-centered cyclotriveratrylene, 381
phosphonylation, squalene synthase, inhibitor, 332
phosphoramidates, in enantioselective alkylation of aldehydes, 145
phosphoric acids, cyclic, enantiomeric excess, dynamic behavior, 220
phosphytylation, PNA-DNA hybrid, solid-phase synthesis, 295
photo-induced energy, Ru^{II} and Os^{II} complexes, electron transfer, 534
photo-induced polymerization, acrylates, 528
photoacoustics, volume change during electron transfer, 543
photoaddition, 2-aminopropenenitriles to diarylethanediones, 498; 1,3-dioxin-4-ones, 483
photocalorimetry, volume change during electron transfer, 543
photochemistry, special issue, Nrs. 11 + 12, 425–577; acrylates, polymerization, 528; 3-alkyl-4-phenoxybut-1-enes, 480; 2-(allylalkylamino)-cyclohex-2-enones, 492; 2-aminopropenenitriles + diarylethanediones, 498; aza-diarylethenes, effect of N-atom, 459; Coulomb-induced exciplex in donor–bridge–acceptor systems, 6; cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485; 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449; 1,3-dioxin-4-ones, 483; enantiomeric hexahelicene, 470; 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504; $Fe(CO)_3COD$, 572; liquid–crystal host–guest systems, 465; $Mn(CO)_3$ complexes, transformation, 566; oximes, β,γ-unsaturated, 514; Ru 2,2′-bipyridine complexes, quenching, 557; Ru^{II} and Os^{II} complexes, dinuclear, 534; styrylpyrroles, intermolecular self-addition, 476; volume change during electron transfer, 543
photocyclization, oximes, β,γ-unsaturated, 514
photocycloaddition, 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504
***meta* photocycloadducts,** 3-alkyl-4-phenoxybut-1-enes, 480
photoisomerization, liquid–crystal host–guest systems, 465
photooxidation, volume change during electron transfer, 543
photophysics, aza-diarylethenes, effect of N-atom, 459; porphyrazine $metal^{II}$ complexes, in micelles, 550
photosynthesis, enantiomeric hexahelicene, 470
phthalocyanine, $metal^{II}$ complexes, photophysics in micelles, 550
Pictet–Spengler reaction, for eudistomin, 27
piperazine, 2-(trifluoromethyl)–, 97
piperidines, solenopsins A, B, C, asymmetric synthesis, 153
platinum, DNA binding, thesis, 112
PM3, 2-(trifluoromethyl)piperazine, 97
PNA-DNA hybrid, solid-phase synthesis, 295
polyenal, lowest triplet state, 425
polyenes, nitroxide analogs, 403
polymer-supported synthesis, see solid-phase synthesis
polymerization, acrylates, 528
polymers, gas-separation membranes, book, 299
porphyrazine, $metal^{II}$ complexes, photophysics in micelles, 550
porphyrins, metallo–, in catalytic oxidations, book, 77
potassium, for super-dry liquid ammonia, 35
propellanes, for [5]*meta*cyclophanes, thesis, 112
propenoates, polymerization, 528
protease, amino acid derivatives, enzymatic ammoniolysis, 171
protection, *S*-(alkylsulfanyl)cysteine, 1
proteins, iron–sulfur –, subsite-differentiated, thesis, 298
proton transfer, ultrafast, book, 113
pseudoknot-dependent, ribosomal frameshifting, thesis, 298
pyranose, anomeric and associated electronic effects, book, 78
pyrans, tetrahydro–, from 3-alkyl-4-phenoxybut-1-enes, 480
pyrazole, Zn ligand, disintegration, 317
pyridine, + thionyl chloride, *tert*-alcohol rearrangement, 87
pyridine 1-oxide, tetrahydro–, with γ-hydroxy- and γ-alkoxy α,β-unsaturated esters, 357
pyridine, (*E*)-4-[2-(naphthal-1-enyl)ethenyl]–, photochemistry and -physics, 459
pyridine, (*E*)-4-[2-(phenanthr-9-enyl)ethenyl]–, photochemistry and -physics, 459
pyridine-2-carbaldimines, $Mn(CO)_3$ complexes, photochemical transformation, 566
pyrrole 1-oxide, dihydro, with γ-hydroxy- and γ-alkoxy α,β-unsaturated esters, 357
pyrrole, 1-vinyl–, metallation, 18
pyrrolin-1-yloxy, in nitroxide analogs of retinal, 403
pyrrolo[1,2-*b*]isoxazoles, from cyclic nitrones and γ-hydroxy- and γ-alkoxy α,β-unsaturated esters, 357
Quanta / CHARMm, MM and MD of Eu^{III} calix[4]arenes, 387
quantum chemistry, book, 41; butadienyl anions, 267; FMO, dinitrobenzenes, 13; MM and MD of Eu^{III} calix[4]arenes, 387; photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
quantum fields, 4-(dimethylamino)benzonitrile-crown4, -crown5, fluorescence, 517
quantum yields, $Fe(CO)_3COD$, photolyse, 572
quenching, Ru 2,2′-bipyridine complexes, by 2-methylanthraquinone, 557
quinoline, (*E*)-1-(2-phenylethenyl)–, photochemistry and -physics, 459
racemization, *S*-(alkylsulfanyl)cysteine, 1
radiative-rate constant, in donor–acceptor systems, 443
radial-distribution function (RDF), MM and MD of Eu^{III} calix[4]arenes, 387;
Raman scattering, ultrafast, book, 113
RDF, see radial-distribution function
reagents, for organic synthesis, book, 424
rearrangement, see isomerization
redox behavior, donor/acceptor aromatic subsystems, 430; $Mn(CO)_3$ complexes, photochemical transformation, 566; Mn_3O_4 catalysts, 22; Ru 2,2′-bipyridine complexes, quenching, 557
regiochemistry, see stereochemistry
regioselectivity, see stereochemistry
reinforcement, hydrothermally aged silica hydrogels, thermoporometry, 361
resorcinarenes, + calix[4]arenes, thesis, 112; partly bridged, 103
retinal, nitroxide analogs, 403
reviews, see also books; electrochemistry of solvated electrons, hydrogenation of monobenzenoids, 259; enantiomeric excess, determination based on ^{31}P-NMR, 115; enantioselective oxidation by non-heme iron mono-oxygenases, 139; gilvocarcins, 341
rhodium, diphosphine complexes, hydrogenation catalysts, 242; Rh^{I}-(CO)H-centered cyclotriveratrylene, 381; Rh-free automotive catalysts, thesis, 339; Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], carbene transformations, 163
ribosomal frameshifting, pseudoknot-dependent, thesis, 298
rigid molecules, calix[4]arenes + resorcinarenes, thesis, 112; upper-rim-functionalized calix[4]arenes + partly bridged resorcinarenes, 103
ring closure, oxazepine in indole alkaloid, 37
RNase L, mouse, 3′-fluoro-3′-deoxyadenosine, binding, 43
RNA, pseudoknot-dependent ribosomal frameshifting, thesis, 298
Rodd's chemistry of carbon compounds, alicyclic compounds, 2nd suppl., 2nd edn., book, 40, 41
rotamers, photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
ruthenium, 2,2′-bipyridine complexes, quenching, 557; CN complexes, volume change during electron transfer, 543; diphosphine complexes, hydrogenation catalysts, 242; porphyrazine complexes, photophysics in micelles, 550; Ru^{II} complexes, photo-induced energy and electron transfer, 534
saccharides, see carbohydrates
saccharose, see sucrose
salen ligand (-N = CH-*o*-C6H4-O-), in crown-ether ring, 273
SCF-CI-DV MO method, 7,15-methanocycloocta[1,2-*a*;5,6-*a*′]dinaphthalenes, 157
Schiff bases, in crown-ether ring, 273
screw sense, isovaline peptides, 325
E-selectin, binding by SLe^x mimic, 398
self-addition, intermolecular, styrylpyrroles, photochemistry, 476
self-consistent-field configuration-interaction dipole-velocity molecular-orbital, see SCF-CI-DV MO
serine proteases, inversion of enantioselectivity of transesterification, 255
SET, see single-electron transfer
shielding, MM and MD of Eu^{III} calix[4]arenes, 387
shrinkage, hydrothermally aged silica hydrogels, thermoporometry, 361
sialic acid, SLe^x mimic, 398

silanes, allyl–, with SO_3, 410
silica hydrogels, hydrothermally aged, thermoporometry, 361
single-electron transfer (SET), β,γ-unsaturated oximes, photocyclization to dihydroisoxazoles, 514
single-stranded DNA, bulged conformation, 79
SLe^x, mimic, 398
SLM, see supported liquid membranes
SO_3, see sulfur trioxide
solenopsins, A, B, C, asymmetric synthesis, 153
solid-phase synthesis, *S*-(alkylsulfanyl)cysteine, stability, 1; Merrifield peptide synthesis, book, 77; PNA-DNA hybrid, 295
solvated electrons, electrochemistry, hydrogenation of monobenzenoids, review, 259
solvating agent, chiral, for carboxylic acids, 253
solvation dynamics, chemical systems, book, 113
solvatochromism, 4-(dimethylamino)benzonitrile-crown4, -crown5, 517
solvent effects, MM and MD of Eu^{III} calix[4]arenes, 387
solvent interactions, volume change during electron transfer, 543
solvent reorganization, volume change during electron transfer, 543
solvent-linked carriers, alkali-cation transport through liquid membranes, 285
spectroelectrochemistry, $Mn(CO)_3$ complexes, photochemical transformation, 566
spin label, nitroxide analogs of retinal, 403
spiroketals, di–, functionalized, 184
spiro[aziridine-2,1′-cyclohexan]-2′-ones, from photochemical rearrangement of 2-(allylalkylamino)cyclohex-2-enones, 492
squalene synthase, inhibitor, 332
stability constants, 9,9′-(ethane-1,2-diyl)bis(anthracene) in cryptand ring, 504
stereochemistry, 2-aminopropenenitriles to diarylethanediones, photoaddition, 498; book, 300, 379; cyclopentene and ethoxyethene, addn. to dimethylbenzonitriles and methoxyacetophenones, 485; 3′-fluoro-3′-deoxyadenosine, binding to mouse RNase L, 43; dinitrobenzenes, methylamination, 13; SLe^x mimic, ring opening, 398; 1-vinylpyrrole, metallation, 18
stereoselectivity, see stereochemistry
stereospecificity, see stereochemistry
steroids, isopentenoids, book, 378
stilbene analogs, photocyclization, 470
structural aspects, aromaticity and antiaromaticity, book, 378
structure, see absolute configuration
styrene oxide, from enantioselective oxidation by oxygenases, review, 139
styrenes, *o*-substd., $Cr(CO)_3$ complexes, enantiomerically pure, 195
styrylpyrroles, photochemistry, intermolecular self-addition, 476
(*E*)-1-styrylnaphthalene, photochemistry and -physics, 459
substituent effect, azocyclopropane *N,N′*-dioxide, 395
sucrose, chemical use, thesis, 76
sulfines, chiral –, from dithio esters, 91; α,β-unsaturated, for thiophenes, 51
sulfonation, allylsilanes, 410
sulfur, in functional groups, book, 378
sulfur trioxide (SO_3), with allylsilanes, 410; pyridine complex activating DMSO, 37;
β-sultones, allylsilanes with SO_3, 410
super-dry liquid ammonia, 35
supported liquid membranes (SLM), alkali-cation transport, 285;
supramolecular chemistry, see host–guest chemistry
surfactant, 2-(4-butyloctyl)malonic acid, 372
Suzuki biaryl coupling, gilvocarcins, review, 341
symmetry, diphenylglycoluril derivs., basket-shaped, 65
tacamine, 1,3-oxazepine, ring closure, 37
TEM, see transmission electron microscopy
terpenes, isopentenoids, book, 378
tertiary alcohols, rearrangement by thionyl chloride + pyridine, 87
tetracyclic compound, from 3-alkyl-4-phenoxybut-1-enes, 480
tetradecahexaenal, lowest triplet state, 425
thermochemistry, carbohydrates, thesis, 76
thermodynamics, enantioselectivity, 211; lanthanides, catalysis, thesis, 76; 1-vinylpyrrole, metallation, 18
thermoporometry, hydrothermally aged silica hydrogels, 361
thermotropic behavior, mesogenic D-glucitol and D-mannitol derivs., 301
theses, algorithms for data conversion in CAOS, 339; calix[4]arenes + resorcinarenes, 103; calix[4]arenes in molecular recognition, 339; conformation of nucleic acid constituents, 298; conformational dynamics of fluorescent exciplexes, 39; Cu-catalyzed atom transfer to amino acids, lactones and cyclopropanes, 377; cytochrome c-550 and MADH redox chain, 39; diphosphenes, diphospha-aromatics, 377; DNA, cisplatin-damaged, repair, 39; genomic position and mutagenesis, 76; histamine H3 receptor, ligands, 339; hydrothermolysis of carbohydrates, 76; insertion of Pd complexes, 377; Ir oxides, 112; lanthanides, catalysis, 76; longe-range orbital interactions in perhydronaphthalene-1,4-diol monosulfonate esters, 39; model systems for subsite-differentiated iron–sulfur proteins, 298; optical determination of aqueous glucose, 298; platinum–DNA binding modes, 112; pseudoknot-dependent ribosomal frameshifting, 298; rhodium-free automotive catalysts, 339; sucrose, chemical use, 76; unsaturated bicyclo[5.3.1]undecanes and [5]*meta*cyclophanes, 112
thiironium ion, in eudistomin rearrangement, 27
thiol protection, *S*-(alkylsulfanyl)cysteine, 1
thionyl chloride, + pyridine, *tert*-alcohol rearrangement, 87
thiophenes, fromallenyl sulfones, 51
thiophosphoramidates and -phosphinamides, in enantioselective alkylation of aldehydes, 145
three-state model, in donor–acceptor systems, 443
through-bond interaction, in donor–acceptor systems, 443
TICT, see twist intramolecular charge transfer
titanium, tetraisopropoxide, catalyst in enantioselective addition of Zn dialkyls to aldehydes using phosphoramidates and phosphinamides, 145
titration conductometry, Ca^{2+} with 1-*O*-octyl-β-D-mannofuranoside, 421
titration microcalorimetry, Ca^{2+} with 1-*O*-octyl-β-D-mannofuranoside, 421
transannular interaction, in eudistomin rearrangement, 27
transesterification, *N*-acetylphenylalanine esters, enantioselectivity, 255
transformations of carbene, Rh_2 tetrakis[methyl 2-oxooxazolidine-4(*S*)-carboxylate], 163
transient IR, $Fe(CO)_3COD$, photolyse, 572
transmission electron microscopy (TEM), 2-(4-butyloctyl)malonic acid, 372;
transoid 2,2′-bipyridine-3,3′-diamines, hydrogen bonding in acylated –, 277
triethanolamine, in photo-initiated polymerization of acrylates, 528
2-(trifluoromethyl)piperazine, 97
trimanganese tetroxide catalysts, redox behavior, 22
triphenyl phosphite, in $Rh^I(CO)H$-centered cyclotriveratrylene, 381
triphenylmethyl (trityl) group, thiol protection in *S*-(alkylsulfanyl)cysteine, 1
triphenylmethylpotassium, liquid ammonia, super-dry indicator, 35
***S*-(triphenylmethylsulfanyl)cysteine,** solid-phase synthesis, stability, 1
triplet sensitization, β,γ-unsaturated oximes, photocyclization to dihydroisoxazoles, 514
triplet state, lowest, tetradecahexaenal, 425
triterpenes, isopentenoids, book, 378
trityl, see triphenylmethyl
twist intramolecular charge transfer (TICT), in aromatics, excited state, 430; 4-(dimethylamino)benzonitrile-crown4, -crown5, 517
ultrafast dynamics, chemical systems, book, 113
unsaturated bicyclo[5.3.1]undecanes, thesis, 112
α,β-unsaturated esters, γ-hydroxy- and γ-alkoxy– with nitrones, cyclic, 357
α,β-unsaturated sulfines, for thiophenes, 51
upper-rim-functionalized calix[4]arenes, 103
UV, 4-(dimethylamino)benzonitrile-crown4, -crown5, 517; hydrogen bonding in acylated 2,2′-bipyridine-3,3′-diamines, 277; 7,15-methanocycloocta[1,2-*a*;5,6-*a′*]dinaphthalenes, 157; photochemistry of 2,5-dimethylhexa-1,3,5-trienes in argon matrices, 449
variable-temperature NMR, $Rh^I(CO)H$-centered cyclotriveratrylene, 381
vesicles, 2-(4-butyloctyl)malonic acid, 372
1-vinylpyrrole, metallation, 18
viscosity effect, liquid–crystal host–guest systems, 465
voltammetry, $Mn(CO)_3$ complexes, photochemical transformation, 566
volume change, during electron transfer, 543
Wittig reaction, stereochemistry, book, 300
X-ray analysis, see crystal structure
X-ray photoelectron spectroscopy (XPS), 2-(trifluoromethyl)piperazine, 97
xerogels, thermoporometry, 361
XPS, see X-ray photoelectron spectroscopy
xylene oxygenase, for enantioselective oxidation, review, 139
zinc, dialkyls, enantioselective addition to aldehydes using phosphoramidates and phosphinamides, 145; porphyrazine complexes, photophysics in micelles, 550; pyrazolato-bridged anion, 317